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County Borough of Middlesbrough.



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HEALTH DEPARTMENT.

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# Annual Report

AND

## Vital and Mortality Statistics

For the year 1923.

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Middlesbrough

JORDISON & Co., Ltd., PRINTERS, LITHOGRAPHERS, &c.

—  
1924.

66775



County Borough of Middlesbrough.



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**HEALTH DEPARTMENT.**

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# COUNTY BOROUGH OF MIDDLESBROUGH.

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## Members of Sanitary Committee, 1923-4.

Chairman—ALDERMAN A. MATTISON.

Vice-Chairman—COUNCILLOR TREVELYAN THOMSON, M.P.

HIS WORSHIP THE MAYOR (COUNCILLOR S. A. SADLER, J.P.)

ALDERMEN W. J. BRUCE, O.B.E., J.P., G. A. CAREY, T. R. DENT, J.P., J. FORBES, J.P.,  
J. HEDLEY, M.D., J.P.

COUNCILLORS J. BEILBY, I. BLOOM, T. J. CROMBIE, A. ELSTROP, MRS. H. GUTHRIE,  
H. D. LEVICK, M.B., J.P., A. MARSHALL, T. MEEHAN, J. G. PALLISTER,  
P. SULLIVAN, E. TURNER, A. WEATHERHEAD, M.B.E., C. B. WOOD,  
J. G. WADDINGTON.

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## Members of Sanatorium Committee, 1923-4.

Chairman—COUNCILLOR J. G. PALLISTER.

HIS WORSHIP THE MAYOR (COUNCILLOR S. A. SADLER, J.P.)

ALDERMEN W. J. BRUCE, O.B.E., J.P., J. FORBES, J.P., J. HEDLEY, M.D., J.P.,  
A. MATTISON, T. G. POOLE, J.P.

COUNCILLORS J. BEILBY, ALICE SCHOFIELD COATES, J.P., A. COOPER, T. J. CROMBIE,  
H. D. LEVICK, M.B., J.P., A. MARSHALL, T. McKENNA, T. MEEHAN,  
T. D. STEWART, J.P., P. SULLIVAN.

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## Members of Maternity and Child Welfare Committee, 1923-4.

Chairman—LADY CALVERT, J.P.

HIS WORSHIP THE MAYOR (COUNCILLOR S. A. SADLER, J.P.)

MRS. M. E. HEWITSON, MRS. KEDWARD, MRS. MATTISON, MRS. COOPER, MRS. BRUCE,  
MISS PURVIS, MRS. TRURAN, DR. HAROLD LOWE.

ALDERMEN G. A. CAREY, J. FORBES, J.P., J. HEDLEY, M.D., J.P., A. MATTISON, J. RODDY.

COUNCILLORS G. ALEXANDER, J. WESLEY BROWN, ALICE SCHOFIELD COATES, J.P.,  
MARION COATES-HANSEN, J. GRAHAM, MRS. H. GUTHRIE, J. HAMILL, J.P.,  
H. D. LEVICK, M.B., J.P., T. D. STEWART, J.P., P. SULLIVAN, A. WEATHERHEAD  
M.B.E., C. B. WOOD.

## STAFF.

Medical Officer of Health and Superintendent of Hospitals :  
\*CHARLES V. DINGLE, M.D., B.Hy., D.P.H.

Tuberculosis Officer :  
\*F. J. HENRY, M.B., F.R.C.S., D.P.H.

Maternity and Child Welfare Medical Officer :  
\*MRS. GRACE H. GIFFEN DUNDAS, F.R.C.S., D.P.H.

Venereal Diseases Medical Officer (Part Time) :  
\*ARTHUR BRYANS, L.R.C.P. & S.

Chief Sanitary Inspector :  
\*†THOMAS P. DIXON, Mem. S.I.A., Mem. R.S.I.

Assistant Sanitary Inspectors :

H. MORGAN, C.R.S.I.	HENRY WATSON, C.R.S.I.
†S. E. ELLIS, C.R.S.I.	E. HOUGHTON, C.R.S.I.
†A. HAY, C.R.S.I.	A. W. LUCAS, C.R.S.I.
†E. J. CUMMINS, C.R.S.I.	(Factories, Workshops, &c.)

Health Visitors :

*MISS L. BELL, C.R.S.I.	*MISS M. A. BLAKE, C.R.S.I.
*MISS E. PEARCE, Cert. Midwife	*MRS. L. BOYLIN, Cert. Midwife
*MISS M. VEITCH, C.R.S.I., Cert. Midwife,	

Tuberculosis Nurses :

*MISS M. OWEN.	*MISS STOCKTON.
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Measles Nurse :  
\*MISS E. McLOUGHLIN.

Matron Corporation Hospitals :  
MRS. B. GARDNER.

Matron Municipal Maternity Home :  
\*MISS A. DAVIES.

Clerks :

J. W. RAWDON, C.R.S.I.	*MRS. C. WALLER.
H. WHITFIELD, C.R.S.I.	*MISS YOUNG.
R. JAMES.	*MISS ANDERTON.
P. TAGGART.	

Foreman Scavenger :  
GEORGE STEVENSON.

Manure Salesman :  
THOMAS WILSON.

\*Salaries rank for Exchequer Grant. †Certificate of R.S. I. for Meat and other Foods.

THE HEALTH DEPARTMENT,  
MIDDLESBROUGH,  
JUNE, 1924.

To the Chairman (Alderman A. Mattison) and Members of the Sanitary Committee.

LADIES AND GENTLEMEN,

I have the honour to present for your consideration a short Report on the Health of the County Borough of Middlesbrough for the year 1923.

My last Report was only issued in September of last year and as the Ministry of Health require a general survey of the whole Sanitary administration of the town once in five years, such a report being due next year—the following report contains only a brief summary of the principal Sanitary circumstances of the town during 1923.

The Health of the town during the year was excellent, the death rate and Infantile Mortality rates being the lowest on record, there was no outstanding cause of mortality.

The chief items of note during the year were : the prevalence (1) of Smallpox of a mild type ; (2) of Scarlet Fever ; (3) of Measles.

From the Sanitary administrative outlook, the most important event has been the practical completion of the Water Carriage System. With the exception of small areas North of the Railway, which are scheduled as insanitary areas, the whole of the town has now been converted, nearly 9,000 conversions having been carried out during the year 1923.

During the year 1923, the question of obtaining a pure and clean Milk supply in the town received great attention and it is of interest to find from the account of the action taken how great an improvement has been brought about. At the present time a great part of the Milk supply now comes up to the standard of Grade "A" Milk, and in some instances even to that of Certified Milk.

It is to be regretted that Housing provision during 1923 failed to keep up to the output of the two previous years, and this problem is still unsolved. Overcrowding of existing houses is very prevalent and is a serious menace to the health and morality of the town.

I have the honour to be,

Your obedient Servant,

*Charles V. Drigles*

Medical Officer of Health.



# ANNUAL REPORT of the Medical Officer of Health for 1923.

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## GENERAL STATISTICS.

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The area of the County Borough of Middlesbrough is 4,323 acres (including 173 acres of Tidal Waters).

**Population.**—At the Census 1921, the population was 131,103.

The estimated population for 1923 is 135,400.

### Inhabited Houses.—

In 1921, there were 26,182 inhabited houses and 27,891 separate occupiers.

In 1922   ,,   ,,   26,980.

During 1923, there were 125 houses built, 30 of these under Housing Schemes and 95 by private enterprise.

The total number of Inhabited Houses in 1923 being 27,075.

The Rateable Value is £650,192.

The sum represented by a Penny Rate being £2,130.

## VITAL STATISTICS FOR THE YEAR 1923.

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**Deaths.**—The total Deaths registered in the district were 1,876 and the nett deaths 1765, the death rate for the year being 13.03 per 1,000 of the estimated population.

### DEATH RATES PER 1,000 POPULATION, IN VARIOUS WARDS.

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Ayresome	..	..	..	8.02.	Grove Hill	..	..	..	10.78
Acklam	..	..	..	11.27.	Linthorpe	..	..	..	11.46
Cannon	..	..	..	13.44.	Newport	..	..	..	16.61
Cleveland	..	..	..	13.98.	Ormesby	..	..	..	13.19
Exchange	..	..	..	13.13.	St. Hilda's	..	..	..	21.44
Vulcan	..	..	..	13.99.					

The death rate per 1,000 population of the 105 County Boroughs and Great Towns in the Country for 1923, was 11.6.

**Births.**—The number of Births registered was 3,726, the nett births numbered 3,728, the birth rate being 27.53 per 1,000 population.

Legitimate Births.		Illegitimate Births.	
Male.	Female.	Male	Female.
1810	1,763	82	73
Total Males, 1,892. Females, 1,836.			

**Infantile Mortality Rates.**—Deaths of Children under 1 year of age, per 1,000 born, 86.

Death rate of Legitimate Children, 85.

,, Illegitimate Children, 104.

The number of Women dying in or in consequence of Child Birth :—from Sepsis, 1. From other Causes, 11.

### INFECTIOUS DISEASES.

#### Zymotic Diseases Notified during 1923.

DISEASE	Number of Cases Notified	Admitted to Infectious Diseases Hospital	Total Deaths.
Diphtheria .. .. ..	80	73	10
Scarlet Fever .. .. ..	1,157	1,111	18
Enteric Fever .. .. ..	4	1	1
Puerperal Fever .. .. ..	2	—	1
Pneumonia .. .. ..	256	—	253
Smallpox .. .. ..	106	106	—
Ophthalmia Neonatorum ..	13	1	—
Malaria .. .. ..	1	—	—
Cerebro Spinal Fever .. ..	1	—	1
Encephalitis Lethargica .. ..	1	—	1
Chickenpox .. .. ..	701	4	—
Measles .. .. ..	3,693	—	78
Erysipelas .. .. ..	94	—	9

### Tuberculosis.

Age Periods	New Cases Notified in 1923.				Deaths Registered in 1923			
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary				
0	.2	..	6	1	..	..	..	3
1	14	7	23	10	9	1	6	6
5	19	17	22	20	1	1	5	1
10	9	25	12	10	1	4	..	1
15	10	14	5	6	6	13	1	2
20	16	17	3	4	11	6	2	..
25	30	31	7	8	9	13	1	2
35	45	26	6	6	29	12	2	1
45	36	8	2	1	21	5	1	..
55	14	5	..	..	6	3	..	..
65 and up'ds.	3	..	..	..	4	..	..	..
Totals ..	198	150	80	71	98	58	18	16

The ratio of non-notified Tubercular Deaths to total Tubercular Deaths is 23·7 per cent.

There has been a great improvement in the notifying of cases of Tuberculosis, following notices sent to Medical Practitioners pointing out the large number of deaths of non-notified cases.

### Ophthalmia Neonatorum.

Notified	CASES		Vision Unimpaired	Vision Impaired	Total Blindness	Deaths				
	Treated									
	At home	In Hospi'l								
13	12	1	13	Nil	Nil	Nil				

## CAUSES OF SICKNESS.

The chief causes of sickness which have been unduly prevalent during the year, were the Infectious diseases, Measles, Scarlet Fever and Chickenpox. Cancer continues to show a gradually increased death rate, in 1921 there were 114 deaths from this cause ; in 1922, 126, and in 1923, 153, being .85, .93 and 1.1 per 1,000 of the estimated population for these years.

**Respiratory diseases** show a decreased mortality during 1923 compared with the previous two years.

**Scarlet Fever.**—There were 1,157 cases notified with 18 deaths, against 305 cases and 4 deaths in the previous year. The attack rate for 1923 being 8.55 and the death rate 0.13 per 1,000 of the population. 96 per cent. of the cases were removed to the Fever Hospital for treatment.

**Measles.**—This disease is notifiable locally and 3,693 notifications were received—this is probably considerably short of the actual number of cases which occurred. There were 78 deaths registered from Measles, being 0.58 per 1,000 of the population. Before this disease was made notifiable in the town the death rate during times of prevalence was as high as 1.7 per 1,000 of the population. It has been evident that with notification and the visiting of these cases, the disease has come to be regarded by parents as more serious than it was previously and greater care in nursing has resulted with the consequent reduction in mortality.

**Chickenpox.**—Owing to the prevalence of this disease and the difficulty experienced in diagnosing it from mild Smallpox, this disease was made notifiable and over 700 cases were reported and visited. In many instances cases notified as Chickenpox were found to be Smallpox.

**Smallpox.**—106 cases of this disease were dealt with in the year 1923 compared with 244 in the previous year. All these cases were removed to the Hemlington Smallpox Hospital. The cases occurred at regular intervals from January to October, after which date no further cases were reported until February of this year. During 1923 the cases were scattered over the whole town, only two of the Wards being free. All cases were of a mild type. There were no deaths.

The following Table gives the Vaccination history of the cases during the past three years.

## COUNTY BOROUGH OF MIDDLESBROUGH—HEALTH DEPARTMENT.

## SMALLPOX—1921 TO 2923.

## AGES OF ATTACKED

Year	Vaccinal Condition	Sex	AGES OF ATTACKED							Total Cases		
			Under 1 year	1-2	2-3	3-4	4-5	5-10	10-15	15-25		
1921	Vaccinated	Male	..	..	..	..	..	..	..	1	2	
		Female	..	..	..	..	..	..	..	2	..	
		Male	..	..	1	1	..	4	5	..	16	
		Female	..	..	1	..	1	5	7	4	..	
	Unvaccinated	..	..	..	..	..	..	..	..	..	19	
		..	..	..	..	..	..	..	..	..	..	
		..	..	..	..	..	..	..	..	..	..	
		..	..	..	..	..	..	..	..	..	..	
1922	Vaccinated	Male	..	..	..	..	..	..	..	3	2	
		Female	..	..	..	..	..	..	..	1	..	
		Male	2	..	..	1	6	2	22	21	15	
		Female	2	3	3	4	2	33	23	17	7	
	Unvaccinated	..	..	..	..	..	..	..	..	..	..	
		..	..	..	..	..	..	..	..	..	..	
		..	..	..	..	..	..	..	..	..	..	
		..	..	..	..	..	..	..	..	..	..	
1923	Vaccinated	Male	..	..	..	..	..	..	..	1	5	
		Female	..	..	..	..	..	..	..	1	6	
		Male	..	..	1	1	2	2	16	8	2	
		Female	3	1	..	1	2	8	17	2	6	
	Unvaccinated	..	..	..	..	..	..	..	..	1	2	
		..	..	..	..	..	..	..	..	25	..	
		..	..	..	..	..	..	..	..	1	..	
		..	..	..	..	..	..	..	..	81	..	
Total			3	2	1	3	4	24	26	12	19	
Total			..	..	..	..	..	..	..	12	..	
										106	..	

## NURSING ARRANGEMENTS, HOSPITALS, ETC. AVAILABLE FOR THE DISTRICT.

These were dealt with in last year's report issued in September and there has been no change since then.

### LABORATORY WORK.

The Bacteriological and Pathological Laboratory Work is still being carried on by the Clinical Research Association. Messrs. Jackson & Scholes have replaced Messrs. Frankland & Stead as Analytical Chemists.

The following Bacteriological Examinations were made during 1923 :—

	Positive.	Negative.	Total.
Diphtheria .. .. ..	27	79	106
Enteric Fever .. .. ..	4	5	9
Ringworm .. .. ..	1	..	1
Milk : (for Tuberculosis) ..	Nil	28	28
,, (for B. Coli.) .. ..	31	11	42
	—	—	—
	63	123	186
	—	—	—

### MILK.

During the year great attention has been paid to the Milk Supply of the town with the object of getting a clean Milk. As regards quality there has been very little fault to find, but it was recognised that there was much to be desired as regards the cleanliness and bacterial content of the Milk. From a series of samples taken it was found that bacterial contamination increased very considerably after the Milk reached the town, during the process of its delivery, and this was not surprising considering the accommodation and methods of handling the Milk provided by some of the retailers. It has generally been understood that it was a difficult matter to produce clean Milk, but after some experimental work at the Corporation Farm, this old idea was found to be quite unfounded, and by adopting a few very simple precautions against contamination a Milk equal in bacteriological content to that of Certified Milk could be produced from Cows kept in the ordinary farm byre, under ordinary conditions of farming.

The first sample taken at the Hemlington Farm gave the following results :—

Number of Bacteria per C.C.	1/10	1/100	1/1000 C.C.	Tubercle B.
367,500	Present	Present	Not found	Nil

Instructions were given that the milkers should wash their hands, wear clean overalls and caps. The cows udders and hind quarters to be groomed and Sirrell's patent pails to be used.

The next sample taken after these instructions were carried out showed :—

Bacteria per C.C.	B. Coli		
	1/10	1/100	1/1000
17,200	Present	Not found	Not found

It was found that a considerable amount of dust from the cows flanks was deposited during milking on the top of the patent pails and that when the pail was tilted in emptying it into the cooler this dust fell into the cooler. The pail tops were therefore wiped with a damp cloth before tilting, with the consequence that B. Coli are now totally eliminated from the Milk.

Having obtained these results it was felt that there was no reason why other farms supplying Milk to the town should not obtain equally satisfactory results, and whenever an unsatisfactory sample was found, the farmer was communicated with and advised as to the methods he should adopt to obtain clean Milk. This procedure has been most satisfactory and encouraging, and from the following Table of Bacteriological Examinations of Milk, it will be seen that in every case the follow-up samples have shown remarkable improvement, *e.g.*, samples numbered 6, 10, 11, 14, 16, 17 and 20.

It is intended to carry out this procedure in the future until all sources of supply have been tested.

Having improved the Milk at its source, it was then thought desirable to deal with the retailers, and this part of the problem was found the more difficult. Milk is retailed by a large number of purveyors whose only premises are ordinary dwelling-houses, the business being carried on usually in sheds in small back yards. There are also a number of small general shops selling all manner of goods, such as patent firelighters, paraffin oil, vinegar, yeast, potatoes and vegetables, meats, dried fish, etc., all of which give off emanations which are liable to contaminate the Milk. During the year a regulation has been passed prohibiting the sale of Milk, except bottled Milk, in all such general shops.

The supply of Milk in properly sealed bottles has increased very largely and the demand for it is a growing one.

There are signs of up-to-date Dairy Shops, selling Milk, Butter and Eggs only, being provided in the town, such shops in the past being unknown.

Owing to the fact that Milk, of all foods, is the most easily contaminated and that it forms a large and necessary part of the diet of young children and invalids it is highly important that it should be produced and retailed with the greatest care and no work is more important to the Health of the community than that of improving its cleanliness and quality.

BACTERIOLOGICAL EXAMINATION OF MILK.

Vendor	Date of Report	No. of Report	No. of Bacteria per c.c.	48 Hours				T.B.	Remarks		
				B. Coli.		1/10	1/100				
				1/10	1/1000						
1	May 9, 1923	7,547	2,200	Nil	Nil	Nil	Pres.	Nil	Grade "A" Certified		
2	May 9, 1923	7,548	38,000	Pres.	Pres.	Pres.	Pres.	Nil	Bottled		
3	April 9, 1923	10,945	112,470	Pres.	Pres.	Nil	Pres.	Nil	.....		
4	April 9, 1923	10,496	367,500	Pres.	Pres.	Nil	Pres.	Nil	.....		
	May 7, 1923	14,051	17,200	Pres.	Nil	Nil	Pres.	Nil	After pails obtained (Grade "A" Standard)		
	May 18, 1923	15,390	6,200	Pres.	Nil	Nil	Pres.	Nil	.....		
	June 12, 1923	18,110	6,020	Pres.	Nil	Nil	Pres.	Nil	.....		
	July 7, 1923	21,074	32,380	Pres.	Pres.	Nil	Pres.	Nil	.....		
	July 31, 1923	23,711	20,566	Pres.	Pres.	Nil	Pres.	Nil	.....		
	September 21, 1923	27,531	11,900	Pres.	Nil	Nil	Pres.	Nil	Grade "A" standard		
	May 5, 1924	13,253	30,300	Nil	Nil	Nil	Pres.	Nil	.....		
	May 7, 1923	14,052	29,160	Nil	Nil	Nil	Pres.	Nil	Certified standard		
5	May 18, 1923	15,391	63,500	Pres.	Pres.	Nil	Pres.	Nil	.....		
6	May 18, 1923	18,108	19,140	Nil	Nil	Pres.	Pres.	Nil	Certified standard		
	June 12, 1923	21,073	340,000	Pres.	Pres.	Nil	Pres.	Nil	.....		
7	June 12, 1923	23,712	116,000	Pres.	Pres.	Pres.	Pres.	Nil	.....		
8	July 7, 1923	23,713	130,000	Pres.	Pres.	Nil	Pres.	Nil	.....		
9	July 31, 1923	37,626	8,166	Nil	Nil	Nil	Pres.	Nil	Certified standard		
10	July 31, 1923	37,267	7,266	Nil	Nil	Nil	Pres.	Nil	Two different Cans		
	December 8, 1923										
	December 8, 1923										

BACTERIOLOGICAL EXAMINATION OF MILK.

15

Vendor	Date of Report	No. of Report	No. of Bacteria per c.c.	48 HOURS			T.B.	Remarks
				1/10	1/100	B. Coli.		
11	July 7, 1923	21,075	540,000	Pres.	Pres.	Pres.	Nil	....
	September 3, 1923	27,530	1,1,300	Pres.	Pres.	Pres.	Nil	Grade "A" standard
12	September 21, 1923	27,532	131,000	Pres.	Nil	Nil	Nil	....
13	September 21, 1923	27,533	65,000	Pres.	Nil	Nil	Nil	Grade "A" standard
14	October 3, 1923	30,146	2,160,000	Pres.	Pres.	Pres.	Nil	....
	October 31, 1923	33,262	50,500	Pres.	Pres.	Nil	Nil	....
	December 8, 1923	37,629	35,500	Nil	Nil	Nil	Nil	....
15	October 3, 1923	30,147	196,000	Pres.	Nil	Nil	Nil	....
16	October 3, 1923	30,148	890,000	Pres.	Pres.	Pres.	Nil	....
	October 31, 1923	33,268	199,500	Pres.	Pres.	Pres.	Nil	....
	December 8, 1923	37,628	31,500	Nil	Nil	Nil	Nil	Certified standard
17	October 3, 1923	30,149	820,000	Pres.	Pres.	Pres.	Nil	....
	October 31, 1923	33,267	96,500	Pres.	Nil	Nil	Nil	....
18	October 3, 1923	30,150	19,660	Pres.	Nil	Nil	Nil	Certified standard
19	October 3, 1923	30,151	32,000	Pres.	Nil	Nil	Nil	....
20	October 31, 1923	33,264	19,500	Pres.	Pres.	Pres.	Nil	....
	December 8, 1923	37,631	8,100	Nil	Nil	Nil	Nil	....
21	October 31, 1923	33,265	116,500	Pres.	Nil	Nil	Nil	....
22	October 31, 1923	33,266	48,500	Nil	Nil	Nil	Nil	Grade "A" standard
23	December 8, 1923	37,630	970,000	Pres.	Nil	Nil	Nil	....
	February 6, 1924	3,403	1,160,000	Pres.	Pres.	Pres.	Nil	....
	March 4, 1924	6,930	26,866	Nil	Nil	Nil	Nil	....

## MATERNITY AND CHILD WELFARE.

### Infantile Mortality.

It is a significant fact that the decrease in the infant death rate has been concomitant with the decrease in the prosperity of the town which has been on the down grade since 1920.

Year.						Infant deaths per 1,000 births.
1920	..	..	..	..	..	135
1921	..	..	..	..	..	118
1922	..	..	..	..	..	111
1923	..	..	..	..	..	86

The factors naturally resulting from the decreased prosperity include decreased pollution of the atmosphere, increase in breast feeding, increase of dried milk in the place of dairy milk, and an increase in the number of mothers who take advantage of the various activities of the Maternity and Child Welfare Department.

Much has been said of the decrease in the consumption of alcohol as a factor in bringing down the infant death rate throughout the country. It has not been an operating factor in Middlesbrough. For the four years from 1916-19, the average number of prosecutions for drunkenness per year was 553, and for the four years from 1920-23 the average number was 1,300.

	1916-19	1920-23
Average number of prosecutions for drunkenness per year	.. .. .. .. ..	553 1,300
Average number of infant deaths per 1,000 births per year	.. .. .. .. ..	139 112

The following figures in respect of breast feeding are an average of the figures obtained from each of the 5 Centres :—

Bottle fed from birth	..	..	..	..	17.5%
Breast fed for less than 1 month	..	..	..	..	17.5%
Breast Fed for from 1 to 3 months	..	..	..	..	15.0%
Breast Fed for from 3 to 7 months	..	..	..	..	50.0%

Every encouragement is given to mothers to breast feed their infants. Of the dried milk given under the Milk Order, 86% is given to expectant and nursing mothers. The Health Visiting staff aim at making a visit during the 3rd week of the child's life to show the mother how to keep her milk.

### MIDWIVES.

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29 Midwives are practising on the district : 21 of these are trained. The number of cases attended by them was 2,083, to 366 of whom medical aid was summoned. The percentage of registered births attended by midwives was 56. The number of notifications of still births was 22. Notifications as to artificial feeding was 10.

The assistant inspector paid quarterly visits to each midwife in addition to special visits as circumstances indicated. The inspector meets the district midwives once a month in the Health Office, to give an address after which the midwives are encouraged to tell any difficulties they have encountered during the month.

### The Municipal Maternity Home and Children's Hospital.

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304 cases were admitted to the Home : 278 of these were midwives' cases, making the percentage attended by midwives 91. Medical help was called in to 64 cases. There was no case of puerperal fever or of ophthalmia neonatorum.

108 cases were admitted to the Children's Hospital : 4 died, 4 were sent out with an infectious disease, 16 were discharged with no improvement, 46 in good health.

All cases discharged from the Maternity Home and from the Children's Hospital receive after-care from the Health Visiting Staff.

### Health Visitors.

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411 visits were paid to expectant mothers, 8,727 to infants under one year, 1,052 to children over one year.

### Centres.

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The Cannon Centre has 2 sessions a week : each of the other 4 Centres has 1 session weekly. An ante-natal session is held once a month at the Red Cross and at the North Ormesby Centre. The average attendances per session throughout the year were as under :—

				Expectant Mothers.	Children.
Cannon Centre	..	..	..	5	117
East Centre	..	..	..	2	109
North Ormesby Centre	..	..	..	2	69
Red Cross Centre	..	..	..	2	70
Settlement Centre	..	..	..	1	62

The items sold at the Centres are : dried milk, virol, and grey powders.

### Ophthalmia Neonatorum.

---

13 cases were notified, 1 of which was treated in Hospital.  
All cases were completely cured.

### Puerperal Fever.

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2 cases were notified : 1 died.

GRACE H. GIFFEN DUNDAS,  
Medical Officer  
i/c Maternity and Child Welfare.

## Report of the Tuberculosis Medical Officer for the Year 1923.

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### Mortality.

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During the year 190 persons in the Borough of Middlesbrough died from Tuberculosis. Of these, 156 died from Pulmonary Tuberculosis or Tuberculosis of the Lungs, and 34 died of other forms of Tuberculosis. The death rate from all forms of Tuberculosis was therefore 14 per 10,000 of the population. This constitutes the highest mortality rate for the past five years, but is still considerably lower than the average for the five years preceding the most recent five-yearly period. The fall in the death rate from Tuberculosis in the last five years has been very considerable and constitutes a record in the history of the Borough. The slight increase during the year 1923 is easily accounted for by reason of the industrial conditions and lack of employment among the working classes, with its consequent poverty and insufficient feeding. The slow progress of improved housing must also be considered as an important factor in the temporary arrest of the progressive fall of mortality.

### Incidence.

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The number of cases notified during the year shows an increase. It also is the highest of the most recent five years, numbering 499, as against an average of 438 for those years. Thus the incidence as well as the mortality has advanced in 1923, and should indicate a higher death rate for the succeeding year, as a probable result.

### The Dispensary.

---

The staff of the Dispensary consists of Medical Officer, two Nurses and two Clerks. 448 new cases were dealt with. Attendances at the dispensary show an increase over the previous year. The work is devoted to diagnosis of cases sent by the general practitioners, to treatment of those persons deemed suitable for this class of treatment ; the selection of cases for Sanatorium treatment ; the visitation of cases in their homes by the Medical Officer and the Nurses ; the examination of healthy persons in contact in the home with infectious patients ; and the general supervision of the local problem dealing with the preventive as also the curative aspect.

### Residential Treatment.

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The accommodation within the Borough for the residential treatment of Pulmonary Tuberculosis consists of 28 beds (30 in the summer by the addition of 2 huts) in West Lane Sanatorium. The 20 beds in Hemlington Sanatorium were not available for the treatment of Tuberculosis patients on account of the continuous epidemic of Smallpox. 136 patients received treatment in West Lane Sanatorium during the year and the result of treatment can be looked upon as fairly satisfactory. On account of this being the only Institution in the Borough available for the treatment of Pulmonary Tuberculosis, a certain number of advanced cases had to be admitted on account of adverse home conditions, a type of case not generally regarded as suitable for treatment in a Sanatorium. For this reason the statistical return as to results is affected.

The six beds at the Broomlands Home for the Surgical treatment of Tuberculous children were still retained. 11 children were in residence there during the year and the results obtained were good. The cost of these beds is entirely borne by the Corporation, without aid from the Exchequer, Broomlands being an Institution under a Poor Law Authority and so not recognised as a residential Institution belonging to the Local Authority for the purpose of treatment of Surgical Tuberculosis of children.

### Silicosis Act, 1919.

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Under this Act persons employed in the silicosis industries are examined periodically. 29 examinations were made in the year. It was not found necessary to suspend any of the cases examined from this class of employment.

### Voluntary Care Committee.

The work of this Committee was still efficiently carried out. This Committee supervises the dispensing of extra nourishment as approved and assisted by Grants in aid from the Ministry of Health. In addition a holiday scheme is organised for patients who have had Sanatorium treatment; and many other issues affecting Tuberculous persons in the Borough are dealt with. In addition to the income derived from the Exchequer and the Local Authority, a fund collected by private subscription is also utilised. A special Report of this Committee's work is published year by year, with a balance sheet accompanying.

### Nursing.

In addition to the home visits paid by the nursing staff of the Dispensary, the District Nursing Association supplies visiting Nurses for those cases requiring home nursing. This branch of the work is exceedingly well carried out and a sum is paid each year by the Public Authority to the organisation providing the Nurses.

### Tuberculous Ex-Servicemen

The supervision and dispensary treatment of ex-servicemen was carried out during the year 1923 as in past years. A considerable amount of work devolves upon the Dispensary staff in dealing with this class of case and does not seem to decrease much as the war period becomes more remote.

A Statistical Return of work done in connection with Tuberculosis in the Borough of Middlesbrough for the year is appended.

### TUBERCULOSIS STATISTICAL RETURN.

Year	Total		Non-Pulmonary		Pulmonary		Death Rate per 1,000	T.B. Death Rate p. 10,000
	Notified	Deaths	Notified	Deaths	Notified	Deaths		
1916 ..	614	204	169	44	445	160	18.07	16.22
1917 ..	604	228	208	56	396	172	19.35	19.12
1918 ..	425	219	152	62	273	155	22.81	20.4
1919 ..	443	167	122	32	321	135	18.39	13.9
1920 ..	451	178	133	36	318	142	15.32	13.4
1921 ..	412	162	91	29	321	133	14.41	12.1
1922 ..	386	170	120	29	266	141	14.50	12.6
1923 ..	499	190	151	34	348	156	13.03	14.0

## Deaths from Tuberculosis, 1923.

		AT AGES.					Total
		Under 15 years	15 to 25	25 to 35	35 to 45	Over 45 years	
<b>Pulmonary :</b>							
Male	..	12	17	9	29	31	98
Female	..	6	19	13	12	8	58
Total	..	18	36	22	41	39	156
<b>Non-Pulmonary :—</b>							
Male	..	11		7			18
Female	..	11		5			16
Total	..	22		12			34

		PULMONARY		Total
		Insured	Non-Insured	
Male	..	43	43	86
Female	..	11	41	52
Total	..	54	84	138

Total Notified	No. notified after death	Percentage of notification after death
499	45	9.01

F. J. HENRY,  
Tuberculosis Medical Officer.

## SANITARY ADMINISTRATION.

There has been no change in the Adoptive Acts, Bye-Laws, and Local Regulations in force last year.

# Report of the Chief Sanitary Inspector for the Year 1923.

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To the Chairman and Members of the Sanitary Committee.

LADIES AND GENTLEMEN,

I have the honour to submit for your information a Statement of Sanitary Work carried out under my supervision for the abatement of Nuisances, etc., during the year 1923.

As requested by the Ministry of Health, the particulars are given mostly in tabular form.

## DESCRIPTION OF WORK CARRIED OUT.

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Number of Inspections made ..	..	..	..	..	..	..	12,240
Number of re-inspections made ..	..	..	..	..	..	..	16,774
Number of Food Inspections ..	..	..	..	..	..	..	4,097
Number of Notices served and letters sent ..	..	..	..	..	..	..	9,248

### Drainage :

Tests applied to new Drains ..	..	..	..	..	..	..	77
Single Private Drains Reconstructed ..	..	..	..	..	..	..	369
Cleansed and Repaired ..	..	..	..	..	..	..	508
Waste Pipes of Sinks Trapped or Renewed ..	..	..	..	..	..	..	75

### Water Closets :

Provided with a sufficient supply of Water ..	..	..	..	..	..	..	43
Basins Renewed ..	..	..	..	..	..	..	18
Cisterns Repaired or Renewed ..	..	..	..	..	..	..	140

### Houses :

Cleansed or Limewashed ..	..	..	..	..	..	..	283
Roofs, etc., Repaired ..	..	..	..	..	..	..	341
Water Spouts Fixed or Repaired ..	..	..	..	..	..	..	820
Down Spouts Disconnected from the Drain ..	..	..	..	..	..	..	Nil
New Sinks Fixed ..	..	..	..	..	..	..	32
Accumulation of Manure or Refuse Removed ..	..	..	..	..	..	..	27
Nuisances arising from the keeping of Swine and other Animals abated ..	..	..	..	..	..	..	32
Pavement of Yards Repaired ..	..	..	..	..	..	..	109
New Floors Laid or Repaired ..	..	..	..	..	..	..	125
Provided with a sufficient supply of Water ..	..	..	..	..	..	..	10
Miscellaneous works not classified above ..	..	..	..	..	..	..	125
Number of Housing Cards compiled since January, 1923 ..	..	..	..	..	..	..	350

Foul W.C. Drains	..	..	..	..	..	..	78
Dilapidated Ashpans	..	..	..	..	..	..	390
Dilapidated Dustbins	..	..	..	..	..	..	3,387
Dilapidated Panhole Doors	..	..	..	..	..	..	158
Defective Closet Doors	..	..	..	..	..	..	213
Large and Defective Panholes	..	..	..	..	..	..	15
Dilapidated Closet Seats	..	..	..	..	..	..	57
Defective Closet Roofs	..	..	..	..	..	..	231
Defective Ceilings	..	..	..	..	..	..	95
Defective Chimneys	..	..	..	..	..	..	59
Defective Sash-boards and Windows	..	..	..	..	..	..	205
Defective Fireplaces	..	..	..	..	..	..	48
Defective Fire Ranges	..	..	..	..	..	..	58
Defective Walls	..	..	..	..	..	..	295
Defective Ovens	..	..	..	..	..	..	28
Dilapidated Setpots	..	..	..	..	..	..	69
Dilapidated Setpot Firebars	..	..	..	..	..	..	23
Defective Handrails	..	..	..	..	..	..	41
Defective Joint between Flushpipe and W.C. Basin					..	..	4
Dirty Premises	..	..	..	..	..	..	55
Defective Flues	..	..	..	..	..	..	18
Defective Gully Covers	..	..	..	..	..	..	13
Defective Yard Gullies	..	..	..	..	..	..	19
Defective Yard Doors	..	..	..	..	..	..	97
Dilapidated Back Passages	..	..	..	..	..	..	86
Grates required for Gullies	..	..	..	..	..	..	47
Drains Cleared with Cooper's Vacuum Pump, Free of Cost to Owners							2,945

### PROSECUTIONS.

Proceedings were instituted against three owners for non-abatement of Nuisances under the Public Health Acts.

Fines and Costs were allowed in each case, and orders obtained for the work to be carried out.

### SANITARY CONVENIENCES.

The work of Converting the Privy Pan Closets to Water Closets was continued, 8,890 such conversions being completed; with the exception of St. Hilda's Ward, the whole of the Borough has been converted to the Water Carriage System.

### INFECTIOUS DISEASES.

Number of Houses inspected, 1,614, and re-inspected, 3,171, and reports made to the Medical Officer of Health, where cases of Infectious Disease have occurred (including all forms of Tuberculosis).

## ADMINISTRATION OF THE FACTORY AND WORKSHIPS ACT, 1901.

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There are 383 Workshops on the Register, including :—

Workshop Bakehouses ..	58	Tinsmiths .. ..	.. ..	6
Factory Bakehouses ..	14	Watch Repairing .. ..	.. ..	6
Boot and Shoe Repairing ..	35	Cabinet Making .. ..	.. ..	18
Dressmaking .. ..	28	Laundries .. ..	.. ..	1
Millinery .. ..	25	Cycle Making and Repairing ..	..	10
Tailoring .. ..	44	Workplaces .. ..	.. ..	37
Joinery .. ..	31	Blacksmiths .. ..	.. ..	5
Plumbing .. ..	16	Miscellaneous .. ..	.. ..	46
Saddlery .. .. ..	3			

On the whole, the workshops, retail bakehouses, &c., were found to be in a satisfactory condition. No Legal Proceedings were instituted.

Full details of the workshops and inspections have been placed on record in accordance with the Act.

The following is a summary of the work carried out during the year :—

**Notices received from H.M. Inspector of Factories :—**

Re-occupation of Workshops .. .. .. .. ..	16
Unsuitable Sanitary Accommodation .. .. ..	3
Dirty Workshops .. .. .. .. ..	3

**Factories :—**

Number Inspected .. .. .. .. ..	91
Number of Inspections .. .. .. .. ..	333

**Workshops and Domestic Workshops :—**

Number Inspected .. .. .. .. ..	383
Number of Inspections .. .. .. .. ..	963

**Notices Served under the Public Health Acts :—**

To Cleanse and Limewash .. .. .. .. ..	25
To provide means of Ventilation Sec. VII. .. .. ..	1
RE Wet Floors, Sec. VIII. .. .. .. .. ..	1
RE Sanitary Defects .. .. .. .. ..	3
To provide Refuse Receptacle .. .. .. .. ..	2

**Workshop Bakehouses, 72 in number, including 14 Factory Bakehouses :—**

Number Inspected .. .. .. .. ..	72
Number of Inspections .. .. .. .. ..	79
Notices Served to Limewash .. .. .. .. ..	1
Number where Sanitary Arrangements improved .. ..	4

**Factory Bakehouses, 14 in number :—**

Number of Inspections .. .. .. .. ..	28
Unsuitable Premises .. .. .. .. ..	1

**Workplaces (Restaurant Kitchens, etc.) :—**

Number on Register	..	..	..	..	..	..	37
Number Inspected	..	..	..	..	..	..	37
Number of Inspections	..	..	..	..	..	..	157

**Sanitary Conveniences in Workshops :—**

Closets insufficient, unsuitable or defective	..	..	..	..	10
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**Home Work (Sections 107 to 115) :—**

25 Lists of Outworkers (or Home Workers) were received in the first half of the year, and 22 for the second half.

Number of Lists of Outworkers received	..	..	..	..	47
Number of Employers	..	..	..	..	25
Number employed in making wearing apparel	..	..	..	..	80
Number employed in Furniture and Upholstery work	..	..	..	..	2
Number of Outworkers' Premises inspected	..	..	..	..	77

The attention of the Borough Engineer has been called to the following defects :—

Apparently Dangerous Structures	..	..	..	..	26
Miscellaneous	..	..	..	..	3

**Houses-Let-in-Lodgings :—**

Number of Keepers	..	..	..	..	..	..	45
Number of Houses	..	..	..	..	..	..	66
Number of Rooms used for Sleeping	..	..	..	..	..	..	356
Number of Separate Families	..	..	..	..	..	..	50
Number of Inspections	..	..	..	..	..	..	393
Number of Notices to Limewash	..	..	..	..	..	..	90
Number of Applications for Registration	..	..	..	..	..	..	19

Proceedings were instituted against one Keeper for taking in Lodgers other than Weekly. The case was dismissed; but the Bye-Laws have since been amended to meet any further cases.

**Common Lodging Houses :—**

Number of Keepers	..	..	..	..	..	..	15
Number of Houses	..	..	..	..	..	..	17
Number of Inspections	..	..	..	..	..	..	208
Number of Lodgers accommodated Nightly	..	..	..	..	..	..	1,256
Number of Notices to Limewash	..	..	..	..	..	..	30
Number Closed or Discontinued	..	..	..	..	..	..	1

One Keeper was prosecuted for not keeping his premises clean, and was fined 40/- and Costs. He has since left the House which has been struck off the Register.

All the premises have been kept in a satisfactory condition. None of the Keepers of Common Lodging Houses were warned by the Order of the Sanitary Committee with respect to the taking in of more Lodgers than the number for which the house was registered.

**Slaughterhouses :—**

Number of Slaughterhouses on Register, January, 1923	..	41
Number Closed or Discontinued during the year	..	Nil
Number Registered	.. .. .. .. ..	38
Number Licensed	.. .. .. .. ..	3
Number of Notifications of Change of Occupier	.. ..	4
Number of Inspections	.. .. .. .. ..	1,256
Number of Notices to Limewash	.. .. .. ..	35
Number of Notices to provide Refuse Receptacle	.. ..	8
Public Slaughterhouse	.. .. .. .. ..	1

**Offensive Trades :—**

Number on Register	.. .. .. .. ..	153
Number of Inspections	.. .. .. .. ..	322
Number of Notices to Limewash	.. .. .. .. ..	31
Number Closed or Discontinued	.. .. .. .. ..	Nil

The Fried Fish Shop premises were found generally in a clean and satisfactory condition.

**Ice Cream Dealers :—**

The premises generally were found in a clean and satisfactory condition.

**Cow Sheds :—**

Number of Cowsheds, January, 1923	.. .. ..	4
Number Discontinued since January, 1923	.. .. ..	Nil
Number of Registered Cowkeepers	.. .. ..	4
Number of Cows kept in the Town	.. .. ..	61
Number of Inspections	.. .. .. ..	11
Number of Notices to Limewash	.. .. .. ..	Nil

**Dairies and Milk Shops :—**

Number of Inspections	.. .. .. .. ..	454
Number on Register	.. .. .. .. ..	174
Number Discontinued since January, 1923	.. .. ..	21
Number Registered during the year	.. .. ..	49
Number of Notices requesting Purveyors to Register	.. .. ..	5

There are altogether 174 persons registered as purveyors of Milk within the Town.

**MILK SUPPLY.**

To ascertain the purity of Milk sold in the Town, and following our action in previous years, 48 samples were obtained and submitted for Bacteriological Examination.

### FOOD AND DRUGS ACTS.

During the year, 201 samples of Food and Drugs have been procured and submitted to the Public Analysts who certified 173 as "Genuine" and 26 samples of Milk and 2 of Whisky as "Adulterated." Letters of warning were sent to the vendors by the Town Clerk, and further samples taken, which were returned "Genuine."

**TABLE I.—TOWN OF MIDDLESBROUGH.**

Nature of Sample	Adulterated	Genuine	Informal	Formal	Total	
Milk	..	26	118	42	144	
Butter	..	..	10	6	4	10
Borax	..	..	2	..	2	2
Lard	..	..	1	1	..	1
Cocoa	..	..	8	2	6	8
Baking Powder	..	..	1	..	1	1
White Pepper	..	..	2	..	2	2
Coffee	..	..	1	..	1	1
Tea	..	..	2	1	1	2
Cream	..	..	2	..	2	2
Whisky	..	..	2	4	3	6
Margarine	..	..	12	8	4	12
Milk Powder	..	..	1	1	..	1
Preserved Cream	..	..	2	..	2	2
Beef and Tomato Paste		..	1	..	1	1
Tinned Peas	..	..	2	..	2	2
Cheese (Wensleydale)	..	..	1	..	1	1
Cakes	..	..	1	..	1	1
Sausage	..	..	2	2	..	2
<hr/>						
Totals	..	28	173	66	135	201

Proceedings were instituted in one instance, 23 Baskets of Blackberries were seized in the Public Market. The case was dismissed.

### REPORT OF ADMINISTRATION IN CONNECTION WITH THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS OF 1912.

During the year ended December 31, 1923.

#### 1. Milk and Cream not Sold as Preserved Cream :—

Number in which a preservative  
was reported to be present and  
percentage of preservative found  
in each Sample.

Milk	..	..	144	Nil
Cream	..	..	2	2 } 0.19 Boric Acid } 0.57 Boric Acid

**Cream Sold as Preserved Cream :—**

(a) Instances in which samples have been submitted for analysis to ascertain if the Statements on the label as to preservative were correct.						
(1) Correct Statements made	..	..	..	..	..	1
(2) Statements Incorrect	..	..	..	..	..	1
						—
						2
(b) Determinations made of Milk Fat in Cream sold as preserved cream :—						
(1) Above 35 per cent	..	..	..	..	..	2
(2) Below 35 per cent.	..	..	..	..	..	..
						—
						2

One Sample contained Boric Acid in excess of that allowed, viz. :—4 per cent. Letter of warning was sent by the Town Clerk.

**Preservatives :—**

All samples of Milk and Butter and any articles likely to contain Preservatives are examined for the same.

**Informal or Test Samples :—**

It will be seen from the Tabular Statement that 66 Informal Samples and 135 Formal Samples were taken during the year, all of which were submitted to the Public Analysts for analysis.

Informal Samples are in all cases purchased by an Agent, and if any are found to be adulterated, formal samples are obtained with a view to summary proceedings being taken. It has been found that the obtaining of informal samples is, on the whole, a very convenient method of estimating whether vendors are supplying genuine articles and causes no inconvenience to the shopkeeper, as when samples are obtained formally, the latter method involves explanation as to why the sample has been purchased, the subsequent division of samples into three parts, and the sealing up of the same, which all take up a considerable amount of time.

**THE MARGARINE ACT, 1887 AND THE SALE OF FOOD & DRUGS ACT, 1899.**

Number of Manufacturers	..	..	..	..	..	Nil
Number of Wholesale Dealers	..	..	..	..	..	10
Number of Premises on Register	..	..	..	..	..	10

During the year one application was received for Registration as wholesale dealer in Margarine or Margarine Cheese, and the application was granted and a Certificate duly issued.

**BUTTER AND MARGARINE ACT, 1907.**

There are no Butter Making Factories in the Town.

### INSPECTION OF MEAT AND OTHER FOODS.

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During the year, a very large number of Carcasses have been inspected by the Food and Drugs Inspector and myself. 174 visits of inspection have been made to the slaughterhouses.

My attention was called by various owners to the undermentioned foodstuffs where they were in an unsound condition and were voluntarily surrendered and destroyed.

	Whole Carcases	Weight Stones		Weight Stones
Beasts .. ..	34	1,234	Fish .. ..	19
Sheep .. ..	2	6	Crabs (1 barrel)	9
Calves (foetal) .. ..	2	4	Rabbits (44) ..	14
Pigs .. ..	6	73	Margarine ..	2
Beef .. ..	..	132	Pears (24 crates)	26
Eggs (1,100) .. ..	..	..	Apricots (5 tins)	
Pigs Heads .. ..	3	3	Blackberries (23 baskets) Seized	
Veal .. ..	..	19		
Corned Beef .. ..	..	5		
Bacon .. ..	..	8		

The total weight of Butchers' meat and other food stuffs surrendered and seized during the year amounted to 1,549 stones, as compared with 1,643 stones in 1922 and 918 stones in 1921.

**TABLE IV.—PARTICULARS OF SURRENDERS AND SEIZURES  
OF UNSOUND ANIMALS AND MEAT.**

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Year	Number of Voluntary Surrenders of diseased carcasses, or part carcasses, or internal organs, by butchers, to the Chief Sanitary Inspector	Number of Seizures (with subsequent destruction) of diseased carcasses or part carcasses or internal organs by the Chief Sanitary Inspector		Total Surrenders and Seizures
		All other diseases Tuberculosis and conditions	All other diseases Tuberculosis and conditions	
1923	44 *	32	Nil	Nil
				76

**TABLE V.—NUMBER AND CLASSES OF ANIMALS AFFECTED WITH TUBERCULOSIS.**

	Bullocks	Cows	Heifers	Calves	Pigs
Whole carcases and organs ..	3	26	5	2	6
Part carcases and organs ..	..	20	..	..	8
Organs Only .. ..	..	6	..	..	..

**TABLE VI. NUMBER AND CLASSES OF ANIMALS AFFECTED WITH DISEASE OR CONDITIONS OTHER THAN TUBERCULOSIS.**

	Number of Animals	Whole carcase and organs affected	Part carcase and Organs affected	Organs only affected
Bullocks .. ..	10	..	8	2
Cows .. ..	10	3	4	3
Pigs .. ..	8	4	4	..
Sheep .. ..	3	1	2	..
Totals ..	31	8	18	5

All condemned meat has been destroyed by burning at the Corporation Destructor.

#### **RATS AND MICE (DESTRUCTION) ACT, 1919.**

With respect to the holding of a "Rat Week," the Sanitary Committee decided not to hold one, as they were of the opinion that more good could be done by a continuous and systematic method of dealing with premises which were reported as being infested with rats or mice.

During the year the Rat Clubs have carried on their campaign with great success—2,382 rats have been killed.

#### **SHOPS ACT.**

During the year the shops within the Borough have been kept under observation. Several letters of warning for contravention of the Closing Hours have been sent out, and two prosecutions were instituted after warning letters had been ignored.

Fines with allowed Costs were given in each case.

In conclusion, I beg to tender my sincere thanks to the Chairman, Vice-Chairman and Members of the Committee for their uniform kindness and assistance, and to the Members of the Staff for their willing and hearty co-operation at all times, in carrying out various and exacting duties.

I am, Ladies and Gentlemen, Yours obediently,

THOS. P. DIXON,  
Chief Sanitary Inspector.

## HOUSING.

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### Dacre Street Area.

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The scheme for the improvement of this area provided for the demolition of 62 houses and re-building 18 new houses on the site.

After an Inquiry, the Ministry of Health decided that the site should not be re-built upon and that land which is available on the Housing Estates should be used on which to build houses for those tenants who will be de-housed by this scheme.

It is proposed to erect 30 A3 type houses (non-parlour and 3 bedrooms) on the Acklam Road Garden Colony, and 27 A3 type houses on the Marton Grove Estate, a total of 57 houses which will accommodate 285 de-housed persons. A commencement has been made with the erection of these houses and when they are completed the demolition of the Dacre Street Area will be proceeded with.

### Unfit Dwelling-houses.

---

#### I. Inspection :—

(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) .. ..	12,240
(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910 .. .. .. .. .. ..	350
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation .. .. .. .. .. ..	Nil
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation .. ..	13

**II. Remedy of Defects without Service of Formal Notices :—**

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers .. . . . .	10,544
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**III. Action under Statutory Powers :—**

A. Proceedings under Section 28 of the Housing, Town Planning, etc., Act, 1919 .. . . . .	13
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(1) Number of dwelling-houses in respect of which notices were served requiring repairs .. . . . .	Nil
--	-----

(2) Number of dwelling-houses which were rendered fit— (a) By Owners .. . . . .	Nil
(b) By Local Authority in default of Owners ..	Nil

(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by Owners of intention to close .. . . . .	Nil
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**B. Proceedings under Public Health Acts :—**

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied .. . .	1,696
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(2) Number of dwelling-houses in which defects were remedied— (a) By Owners .. . . . .	1,696
(b) By Local Authority in default of Owners ..	Nil

C. Proceedings under Sections 17 and 18 of the Housing, Town Planning, etc., Act, 1909 .. . . . .	Nil
---	-----

(1) Number of representations made with a view to the making of Closing Orders .. . . . .	Nil
---	-----

(2) Number of dwelling-houses in respect of which Closing Orders were made .. . . . .	Nil
---	-----

(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit .. . . . .	Nil
---	-----

(4) Number of dwelling-houses in respect of which demolition orders were made .. . . . .	Nil
--	-----

(5) Number of dwelling-houses demolished in pursuance of Demolition Orders .. . . . .	Nil
---	-----

## COLLECTION AND DISPOSAL OF NIGHTSOIL AND OTHER REFUSE.

MONTH 1923	Total Loads Collected	Barged to Sea	Sent to Tips	3	4	5	6	7	8	9
					Sold to Farmers and others	Amount Realized	Trips to Sea	Bags of Paper and other light Refuse	Barged to sea for private persons	Amount Realized
January ..	3,694	3,151	660	658	181	8	9	11	4,877	10
February ..	3,587	2,890	906	441	104	4	11	9	5,049	41
March ..	4,386	3,917	740	386	153	11	4	12	6,267	84
April ..	3,407	3,130	568	279	174	14	5	10	4,965	133
May ..	3,239	2,901	590	432	101	19	11	9	4,897	99
June ..	4,005	3,067	1,207	965	136	5	0	10	6,271	61
July ..	3,025	2,999	652	707	197	3	1	7	5,020	470
August ..	2,910	3,006	732					7	4,895	699
September ..	3,588	3,136	1,179					10	6,204	583
October ..	2,763	2,914	925					7	10	4,922
November ..	2,834	2,946	816	795½	91	6	2	10	5,010	813
December ..	3,692	3,297	1,045	594	120	5	6	14	6,358	537
TOTALS ..	41,130	37,354		6,495½	1388	10	8	119	64,735	4,486
										266 17 0

Note.—Column 4 is in Tons.

The Figures in Column 3 include Column 4 and those in Column 8 are included in Column 2.

# Report of the Venereal Diseases Medical Officer for the Year 1923.

**CLINIC** :—105, Grange Road West, Middlesbrough.

**STAFF** :—Medical Officer (Dr. A. Bryans), two male and two female attendants.

**HOURS** :—**MALES**—Monday .. . 8-30 a.m. and 5-30 p.m.

Friday .. . 8-30 a.m. and 5-30 p.m.

**FEMALES**—Wednesday .. . 5-30 p.m.

**IRRIGATION** :—

(For Males) Monday .. . 8-30 a.m. and 5-30 p.m.

Tuesday .. . 5-30 p.m.

Thursday .. . 5-30 p.m.

Friday .. . 8-30 a.m. and 5-30 p.m.

## **Number of Cases under Observation and Treatment January 1st, 1923.**

Syphilis		Soft Chancere		Gonorrhoea		Other Cases		Total		
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
123	55	13	..	71	7	9	1	216	63	279

## **Number of Persons and the Disease they were suffering from dealt with for the first time :—**

Middlesbrough Area .. . . . . 327

Other Areas .. . . . . 70

Seamen .. . . . . 73

Total .. . . . . 470

DISEASE	Syphilis		Soft Chancere		Gonorrhoea		Other cases		Total		
	Sex— M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Syphilis .. .	69	29	..	..	..	..	..	..	69	29	98
Soft Chancere .. .	..	..	6	..	..	..	..	..	6	..	6
Gonorrhoea .. .	..	..	..	..	204	2	..	..	204	2	206
Syphilis and Gonorrhoea .. .	2	..	..	..	2	..	..	..	4	..	4
Other Cases .. .	..	..	..	..	..	..	140	16	140	16	156
Total .. .	71	29	6	..	206	2	140	16	423	47	470

### Nationality of Seamen Treated.

British	..	..	..	..	..	..	43
Norwegian	..	..	..	..	..	..	4
Swedish	..	..	..	..	..	..	3
American	..	..	..	..	..	..	1
Dutch	..	..	..	..	..	..	3
Belgian	..	..	..	..	..	..	1
Esthonian	..	..	..	..	..	..	1
Greek	..	..	..	..	..	..	2
Spanish	..	..	..	..	..	..	1
Lascar	..	..	..	..	..	..	18
							—
				—	Total	..	73
							—

### Average Attendance for year :—

Morning Session (Males)	..	..	..	..	11.8
Evening Session (Males)	..	..	..	..	40.5
Evening Session (Females)	..	..	..	..	20.7

### Total Attendance of all Persons suffering from :—

Syphilis		Soft Chancre		Gonorrhoea		Other Cases		Total	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1,923	976	10	..	3,148	41	508	39	5,589	1,056

Total attendances of all persons classified according to areas in which patient resides :—

	AREA.					
Middlesbrough	..	..	..	..	..	5,770
North Riding of Yorks	..	..	..	..	..	672
Durham County	..	..	..	..	..	203
						—
			Total	..	..	6,645
						—

A. BRYANS,  
Medical Officer,  
Treatment Centre.

TABLE 1.—Vital Statistics of Whole District during 1923  
and previous years.

YEAR 1	Population estimated to Middle of each Year. 2	Uncorrected Number 3	BIRTHS		TOTAL DEATHS REGISTERED IN THE DISTRICT		TRANSFERABLE DEATHS		NETT DEATHS BELONGING TO THE DISTRICT			
			Number 4	Rate 5	Number 6	Rate 7	Of Non-residents registered in the District 8	Of Residents not registered in the District 9	Under 1 Year of Age 10	Rate per 1,000 Nett Births 11	At all Ages 12	Rate 13
1916 ..	For Deaths: <b>115,548</b> For Births: <b>125,718</b>	3,536	3,535	28.12	2,154	18.64	90	25	430	121	2,089	18.07
1917 ..	For Deaths: <b>119,251</b> For Births: <b>132,931</b>	3,059	3,062	23.03	2,366	19.84	92	34	465	151	2,308	19.35
1918 ..	For Deaths: <b>115,752</b> For Births: <b>129,696</b>	3,331	3,327	25.64	2,741	23.67	150	50	485	145	2,641	22.81
1919 ..	For Deaths: <b>127,142</b> For Births: <b>132,444</b>	3,534	3,531	26.66	2,437	19.16	132	34	493	139	2,339	18.39
1920 ..	<b>132,208</b>	4,434	<b>4,431</b>	33.51	2,109	15.95	120	37	602	135	2,026	15.32
1921 ..	<b>133,400</b>	4,240	4,218	31.62	1,967	14.74	106	32	501	118	1,893	14.41
1922 ..	<b>134,800</b>	3,823	3,774	27.99	2,057	15.26	121	24	421	111	1,960	14.50
1923 ..	<b>135,400</b>	3,726	3,728	27.53	1,876	13.85	139	28	321	86	1,765	13.03

TABLE II.—Cases of Infectious Diseases notified during 1923.

NOTIFIABLE DISEASE	At all ages	NUMBER OF CASES NOTIFIED				Total Cases Notified in each Ward of the Borough												Cases Removed										
		Under 1 year	1 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 years and over	Ayrshire	Cannock	Cleveley	Grove Hill	Hilbre	Ormesby	Newport	Limthorpe	Exchanges	Cleveley	Grove Hill	Hilbre	Ormesby	Vulcan	West Lane	Hospital	Hospital	Hospital	Hospital	Hospital
Diphtheria	80	2	27	38	7	5	1	·	18	8	4	3	2	12	2	14	8	5	4	73	..	..	..	..	..	..	..	..
Erysipelas	94	2	4	10	14	27	29	8	16	9	6	6	4	3	8	12	11	6	13	..	..	..	..	..	..	..	..	
Scarlet Fever	1157	7	225	710	158	52	5	..	135	125	67	106	80	107	99	108	154	58	118	1111	..	..	..	..	..	..	..	..
Enteric Fever and Continued Fever	4	..	..	..	..	2	2	..	..	1	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	2	..	..	..	1	1	..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia Neonatorum	13	13	..	..	..	..	..	..	..	..	..	..	27	1	14	12	..	..	..	..	..	..	..	..	..	..	..	..
Small-pox	106	3	10	51	13	18	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malaria	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	256	7	52	27	37	70	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cerebrospinal Fever.	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Encephalitis Lethargica	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chickenpox	701	58	292	344	2	5	..	..	..	101	60	56	77	30	53	58	140	58	30	38	..	..	..	..	..	..	..	3
Measles	3693	236	2256	1172	22	7	..	..	..	319	176	462	330	244	255	259	505	418	336	389	..	..	..	..	..	..	..	..
Pulmonary Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	198	2	14	28	26	75	50	3	18	12	20	16	7	6	16	24	14	44	21	55	..	..	..	..	..	..	..	..
Females	150	..	7	42	31	57	13	..	17	7	15	12	9	10	5	26	10	23	16	45	..	..	..	..	..	..	..	..
Other forms of Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Males	80	..	23	34	8	13	2	..	..	6	3	13	3	3	6	7	11	3	14	6	..	..	..	..	..	..	..	..
Females	71	6	10	30	10	14	1	..	..	7	7	8	6	2	5	1	8	5	14	8	6	..	..	..	..	..	..	..
Totals . .	6607	337	2920	2486	329	347	162	26	734	426	682	601	396	475	472	898	693	577	653	1296	109							

TABLE III.—INFANTILE MORTALITY, 1923. Nett Deaths from stated Causes

CAUSE OF DEATH	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	1-3 months	3-6 months	6-9 months
Measles ..	..	..	..	..	..	..	2	9
Erysipelas ..	..	..	..	..	..	1	..	..
Tuberculous Meningitis ..	..	..	..	..	..	..	1	1
Other Tuberculous Diseases ..	..	..	..	..	..	..	..	1
Meningitis (not Tuberculous) ..	..	..	..	..	..	..	..	..
Convulsions ..	3	3	..	..	6	..	1	3
Laryngitis ..	..	..	..	..	..	..	..	..
Bronchitis ..	..	..	..	..	1	1	5	6
Pneumonia (all forms)	2	1	..	..	3	2	8	20
Diarrhoea ..	1	1	1	..	3	1	4	2
Enteritis ..	1	..	..	..	1	9	6	5
Gastritis ..	..	..	..	..	..	..	..	..
Syphilis ..	..	..	1	..	1	4	2	2
Rickets ..	..	..	..	..	..	..	..	1
Injury at Birth ..	1	..	..	..	1	..	..	..
Atelectasis ..	3	1	..	..	4	1	..	..
Congenital Malformation	7	2	1	..	10	1	..	..
Premature Birth ..	62	7	5	1	75	3	1	..
Atrophy, Debility and Marasmus ..	18	3	1	3	25	15	5	..
Other Causes ..	5	1	..	2	8	2	3	..
Influenza ..	..	..	..	1	1	..	..	..
<b>TOTALS ..</b>	<b>103</b>	<b>20</b>	<b>8</b>	<b>8</b>	<b>139</b>	<b>44</b>	<b>39</b>	<b>51</b>

NETT BIRTHS IN THE YEAR :—

Legitimate .. 3,613

Illegitimate .. 115

NETT DEATHS IN THE YEAR OF :—

Legitimate Infants .. 309

Illegitimate Infants .. 12

## various Ages under One Year.

-12 orths	Total Deaths under 1 year	Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormesby	St. Hildas	Vulcan	Total
11	22	..	..	6	3	1	..	..	3	2	4	3	22
..	1	..	..	..	..	..	..	..	..	..	..	1	1
1	3	..	..	..	..	..	1	..	1	1	..	..	3
..	1	..	..	..	..	..	..	..	1	..	..	..	1
3	3	..	1	..	..	..	..	..	..	1	1	..	3
1	11	..	..	2	..	..	..	..	3	1	4	1	11
1	1	..	..	..	..	..	..	..	..	1	..	..	1
3	21	..	1	..	5	..	2	1	4	2	4	2	21
17	50	2	1	6	4	3	2	1	9	1	15	6	50
1	11	..	..	2	1	..	..	..	2	..	4	2	11
..	21	1	..	4	3	1	1	1	2	4	3	1	21
1	1	..	..	..	..	..	..	..	..	1	..	..	1
..	9	2	2	..	1	..	..	..	2	..	2	..	9
..	1	..	..	1	..	..	..	..	..	..	..	..	1
..	1	1	..	..	..	..	..	..	..	..	..	..	1
..	5	1	1	1	..	..	1	..	..	1	..	..	5
..	11	3	..	..	1	2	..	..	4	..	..	1	11
..	79	2	5	3	12	4	4	4	8	16	8	13	79
2	51	3	3	13	6	..	2	..	8	3	9	4	51
2	17	1	1	4	1	1	3	..	2	3	1	..	17
..	1	..	..	1	..	..	..	..	..	..	..	..	1
43	321	16	15	43	37	12	16	7	49	37	55	34	321
Birth Rate	..	17.46	19.66	34.83	25.94	18.01	28.56	14.24	38.46	30.39	32.84	25.34	27.53
Mort. Rate	..	62	71	99	117	75	55	45	96	93	127	108	86

TABLE IV. Nett Deaths registered

CAUSES OF DEATH		Ages at Death										Deaths in Public Institutions.
		All ages	Under 1 yr.	1 and under 2 yrs.	2 and under 5 yrs.	5 and under 15 yrs.	15 and under 25 yrs.	25 and under 45 yrs.	45 and under 65 yrs.	65 and up wards		
All Causes	Certified ..	1745	313	137	115	66	78	225	408	403	6	
	Uncertified	20	8	..	1	..	..	..	5	..		
Enteric Fever	..	..	..	..	..	..	..	..	..	..	..	1
Smallpox	..	..	..	..	..	..	..	..	..	..	..	
Measles	..	..	78	22	35	20	1	..	..	..	..	3
Scarlet Fever	..	..	18	..	2	4	9	2	1	..	..	16
Whooping Cough	..	..	..	..	..	..	..	..	..	..	..	
Diphtheria and Croup	..	10	..	5	2	3	..	..	..	..	..	5
Influenza	..	..	18	1	..	3	..	..	6	4	4	1
Erysipelas	..	..	9	1	..	..	..	..	3	4	1	1
Pulmonary Tuberculosis	..	156	1	3	7	7	35	63	36	4	56	
Tuberculous Meningitis	..	16	3	1	5	4	2	..	1	..	4	
Other Tuberculous Diseases	..	18	..	2	4	3	3	6	..	..	12	
Cancer, Malignant Disease	..	153	..	..	..	..	1	13	77	62	50	
Rheumatic Fever	..	15	..	..	..	5	..	3	3	4	1	
Meningitis	..	29	3	4	6	3	..	3	1	..	6	
Organic Heart Disease	..	120	1	..	..	2	4	13	52	48	24	
Bronchitis	..	119	20	8	6	1	..	5	52	47	12	
Pneumonia	..	127	10	8	11	5	7	29	35	22	35	
,, Broncho	..	126	39	40	20	4	..	6	9	8	14	
Other Respiratory Diseases	..	18	1	2	1	..	..	1	7	6	7	
Diarrhoea and Enteritis	..	53	34	8	3	3	..	..	2	3	10	
Appendicitis and Typhlitis	..	7	..	..	..	1	1	2	2	1	11	
Cirrhosis of Liver	..	2	..	..	..	..	..	1	1	..	1	
Alcoholism	..	..	..	..	..	..	..	..	..	..	..	
Nephritis and Bright's Disease	..	34	..	..	1	2	..	8	14	9	14	
Puerporal Fever	..	1	..	..	..	..	..	1	..	..	..	
Other Accidents and Diseases of Pregnancy	..	11	..	..	..	..	4	7	..	..	5	
Congenital Debility and Malformation, including Premature Birth	..	136	136	..	..	..	..	..	..	..	15	
Violent Deaths	..	63	1	3	8	4	5	16	15	11	47	
Suicide	..	3	..	..	..	..	..	1	1	1	..	
Other defined Diseases	..	415	38	15	12	9	14	37	114	176	178	
Diseases ill-defined or unknown	..	5	1	1	..	..	..	..	1	2	1	
Murder	..	1	..	..	1	..	..	..	..	..	..	
Syphilis	..	11	9	..	..	..	..	..	2	..	5	
Encephalitis Lethargica	..	1	..	..	1	..	..	..	..	..	..	
Manslaughter	..	..	..	..	..	..	..	..	..	..	1	
Cerebro-spinal Fever	..	1	..	..	1	..	..	..	..	..	..	
Totals	..	1765	321	137	116	66	78	225	413	409	536	

Death Rate ..

Birth Rate ..

Infantile Mortality Rate ..

ring the year 1923.

Number of Deaths and Death Rate in each Ward in the Borough.												Totals
Ayresome	Acklam	Cannon	Cleveland	Exchango	Grove Hill	Limthorpe	Newport	Ormesby	St. Hildas	Vulcan		
..	..	..	..	..	..	..	..	..	..	..	..	..
2	17	10	1	3	1	2	10	7	15	11	78	78
2	1	2	1	..	..	4	3	2	1	1	18	18
1	..	..	2	..	..	2	3	1	..	2	..	10
3	1	2	2	1	1	..	..	3	1	..	..	18
2	1	1	2	2	2	2	3	3	1	2	..	9
17	15	12	9	6	6	10	22	13	27	19	156	156
1	2	1	1	..	1	2	4	1	2	1	16	16
2	4	2	2	1	1	1	1	2	1	1	18	18
10	10	8	13	11	14	20	12	18	23	14	153	153
1	2	1	2	2	..	1	2	1	2	1	15	15
..	5	2	..	2	3	..	1	2	3	1	20	20
17	18	9	10	8	11	7	9	9	12	10	120	120
1	8	10	10	10	7	9	18	9	26	11	119	119
12	7	8	15	10	6	7	18	9	22	13	127	127
3	5	21	10	8	4	6	19	9	30	11	126	126
..	1	1	2	..	3	..	..	5	2	1	18	18
2	2	8	6	2	2	1	6	5	13	6	53	53
1	..	1	..	..	..	3	..	1	..	1	7	7
..	..	..	..	..	..	..	..	..	..	..	..	..
3	1	2	..	3	3	3	3	3	11	2	34	34
..	..	..	..	1	..	..	..	..	..	..	1	1
1	..	..	3	2	..	..	1	..	4	..	11	11
8	7	14	19	6	5	4	20	19	16	18	136	136
4	1	6	4	3	7	5	14	4	9	6	63	63
23	25	36	39	36	34	38	42	46	60	36	415	415
..	1	2	1	..	..	..	..	..	..	1	5	5
..	2	..	1	..	1	..	3	..	2	..	11	11
..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..
118	121	166	164	116	103	124	219	172	282	174	1765	
8.02	11.27	13.41	13.98	13.13	10.78	11.46	16.61	13.19	21.44	13.99	13.03	
7.46	19.66	34.83	26.94	18.01	28.58	14.24	38.46	30.39	32.84	25.34	27.53	
62	71	99	117	75	55	45	96	93	127	108	86	

NOTIFICATION OF BIRTHS ACT, 1907.

TABLE V.—Summary of Births notified to the Medical Officer of Health during the year 1923.

2,333 of these Confinements were attended by Registered Midwives.

Sugden and the other midwives.  
Medical Practitioners.

二〇

Medical Practitioners.  
Other Women (Neighbours or Unregistered Midwives)

TABLE VI.—BIRTH RATE, DEATH RATE AND ANALYSIS OF MORTALITY.

Provisional figures. The rates for England and Wales have been calculated on a population estimated to the middle of 1923, while those for the towns have been calculated on populations estimated to the middle of 1922. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the groups of towns).

Birth Rate per 1,000 Total Population	Annual Death Rate per 1,000 Population	Rate per 1,000 Births		Percentage of Total Deaths	
		Certified Causes of Death by Medical Practitioner	Total Deaths under One Year	Inquest Cases	Uncertified Causes of Death
1923.					
England and Wales	..				
105 County Boroughs and Great Towns, including London .. ..	20.4	11.6	0.01	0.00	0.15
157 Smaller Towns (1921 Adjusted Populations 20,000—50,000) .. ..	19.8	10.6	0.01	0.00	0.19
London .. ..	20.2	11.2	0.01	0.00	0.08
Middlesbrough .. ..	27.53	13.03	0.00	0.00	0.58

**TABLE VII.—Cases of Infectious Disease treated at the Corporation Hospitals during 1923.**

DISEASE	Remaining in Hospital December 31st, 1922.		Cases admitted and Deaths per month												Totals												
	Cases	Deaths	January		February		March		April		May		June		July		August		September		October		November		December		
<b>West Lane Fever Hospital—</b>																											
Scarlet Fever ..	102	98	2	66	..	70	2	71	..	75	2	84	1	93	..	102	2	102	3	153	5	121	..	72	1	1209	18
Enteric Fever ..	..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	3	1
Diphtheria ..	3	11	..	10	..	11	..	4	2	4	1	5	..	7	..	7	..	2	..	5	..	8	..	1	..	77	3
Meningitis ..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Total ..	105	109	2	76	..	81	2	78	4	79	3	89	1	100	..	109	2	105	2	158	5	129	..	73	1	1290	23
<b>Tuberculosis Hospital—</b>																											
Male ..	14	6	1	6	1	6	..	5	1	6	..	6	3	3	1	4	2	7	..	3	..	4	1	4	..	60	10
Female ..	9	7	..	1	..	5	..	3	..	3	..	5	..	8	..	6	..	5	..	1	..	5	..	2	..	51	..
Total ..	23	13	1	7	1	11	..	8	1	9	..	11	3	11	1	10	2	12	..	4	..	9	1	6	..	111	10
<b>Hemlington Hospital—</b>																											
SmallPox ..	3	28	..	23	..	19	..	11	..	8	..	5	..	4	..	..	..	8	..	3	..	..	..	..	..	109	..
Chickenpox ..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Observation ..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..	3	..
Total ..	3	28	..	23	..	19	..	11	..	8	..	6	..	5	..	2	..	8	..	3	..	..	..	..	..	113	..

The undermentioned Cases were admitted from outside the Borough :—

AREA	Scarlet Fever	Diphtheria	Meningit's	Enteric Fever	Small-pox	Chicken-pox	Observation (S.P.)	Total
Thornaby .. ..	19	7	..	1	..	1	2	30
Middlesbrough R.D.C.	3	..	1	..	..	..	..	4
Tees Port Sanitary Authority ..	1	1	..	..	..	..	..	2
Stokesley R.D.C. ..	9	1	..	..	..	..	..	10
Pickering U.D. ..	..	..	..	..	..	1	..	1
Hospital Staff ..	6	..	..	..	..	..	..	6

TABLE VII.—ZYMOTIC DISEASES.

DISEASE	1922				1923			
	No. of Cases	Deaths	per 1,000 pop.		No. of Cases	Deaths	per 1,000 pop.	
			Mort.	Attack			Mort.	Attack
Smallpox .. ..	253	..	..	1.89	106	..	..	0.78
Enteric and Continued Fevers .. ..	4	..	..	0.03	4	..	..	0.03
Measles .. ..	253	9	0.07	1.89	3,693	78	0.57	27.27
Scarlet Fever .. ..	305	4	0.03	2.28	1,157	18	0.13	8.55
Diphtheria and Croup ..	82	12	0.09	0.61	80	10	0.07	0.59
Diarrhoea and Enteritis ..	..	53	0.39	..	..	53	0.39	..
Whooping Cough .. ..	..	35	0.26	..	..	..	..	..
Chickenpox .. ..	621	..	..	4.65	701	..	..	5.17
Zymotic Death Rate ..	0.84 per 1,000				0.78 per 1,000			
No. of Notifications ..	2,229				6,607			

